

DP Barcode: DXXXXXX

MAID No.: 443074-28

DATA EVALUATION RECORD
ACUTE CONTACT TOXICITY TEST WITH THE HONEY BEE
§ 141-1

1. CHEMICAL: SAN836H (Diflufenzopyr) PC Code No.: 005107
2. TEST MATERIAL: San 836H Purity: 99.47%
3. CITATION
Authors: Collins, Maura K
Title: Acute Contact Toxicity With Honey Bees (*Apis mellifera*)
Under Static Conditions
Study Completion Date: September 30, 1995
Laboratory: Springborn Laboratories, Inc..
Sponsor: Sandoz Agro, Inc.
Laboratory Report ID: 95-12-6251
MAID No.: 443074-28
DP Barcode:
4. REVIEWED BY: Fred Jenkins, Aquatic Biologist, ERBII, EFED

Signature: *Fred Jenkins* Date: *9/6/98*
5. APPROVED BY: Mike Davy, Agronomist, ERBII, EFED

Signature: *Michael Davy* Date: *9-6-98*
6. STUDY PARAMETERS

Test Species: *Apis mellifera*
Age of Test Organisms at Test Initiation: 5-10 days
Exposure Duration: 48 hours
7. CONCLUSIONS: LD₅₀ > 25 ug ai/bee
Toxicity category: Non Toxic
Slope of Response: N/A
NOEL: 25 ug ai/bee
8. ADEQUACY OF THE STUDY

A. Classification: Core

B. Rationale: The study meets the guideline criteria.



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C. Repairability: N/A

9. GUIDELINE DEVIATIONS: N/A

10. SUBMISSION PURPOSE: Section 3 Registration

11. MATERIALS AND METHODS**A. Test Organisms**

Guideline Criteria	Reported Information
Species	Honey Bee (<i>Apis mellifera</i> L.)
Age at beginning of test Worker bees of uniform age.	Yes
Source	Apiary Services, Inc.
Were bees from disease-free colonies?	Yes
Were bees kept in conditions conforming to proper cultural practices?	Yes

B. Test System

Guideline Criteria	Reported Information
Test Chambers	Size: 12.7 x 12.7 x 12.7 cm. Material: Constructed from PCV sheet and is covered with a polyester mesh.
Temperature during exposure	Mean: 32 C Range: 29 to 32 C
Relative humidity during exposure	Mean: 82% Range: 82 to 88%
Lighting	Total Darkness
Feeding	Bees were fed a fresh mixture of 50% sucrose solution and distilled water daily.

C. Test Design

Guideline Criteria	Reported Information
Nominal dosage levels tested	25 ug ai/bee
Number of bees exposed per dosage level	There was one treatment level with 12 bees/replicate. The number of replicates was not reported.
Other experimental design information	12 bees/replicate chamber
Bees randomly or impartially assigned to test groups	Yes
Control	Yes
Solvent control	Dimethylformide
Total observation period and frequency of interim observations	48 hours

12. REPORTED RESULTS

Guideline Criteria	Reported Information
Quality assurance and GLP compliance statements were included in the report?	Yes
Observed adverse effects on bees at respective dosages	None
Control and Solvent Control Mortality	0 %
Were raw data included?	Yes

Mortality and Observations

Experimental Group	Number Exposed	Number (Percent) Dead	Observations
Control	36	0	no sublethal effects
Treatment	36	0	no sublethal effects

Agency Statistical Analysis

Based on the results of the study, the SAN 836H 48-hour LD₅₀ value for honey bees was empirically estimated to be > 25 ug A.E./bee, the highest maintained exposure level. A statistical analysis was not necessary.

Method Used: N/A

Results: N/A

13. REVIEWER'S COMMENTS:

The study was scientifically sound and met all required guideline criteria according to *The Hazard Evaluation Division Standard Evaluation Procedure for Honey Bee Acute LD₅₀ Test*.